

PNP Silicon Transistor

(Ta=25°C)

Description

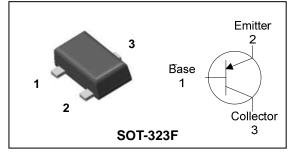
• Medium power amplifier

Features

- Large collector current : I_{C} = -500mA
- Suitable for low-Voltage operation
- because of its low saturation voltage
- Complementary pair with 2SC5342UF

Ordering Information

PIN Connection



Type NO.	Marking	Package Code
2SA1979UF	$\underline{A} \square \square$ $\underline{1} 2 3$	SOT-323F
	Device Code Streph Streph Week Code	

1)Device Code 2)hFE Rank 3)Year&Week Code

Absolute Maximum Ratings

	(1a-25 C)		
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-40	V
Collector-emitter voltage	V _{CEO}	-32	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ι _C	-500	mA
Collector power dissipation	Pc	200	m W
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~ 150	°C

Electrical Characteristics

Electrical Characteristics (Ta=25°					=25°C)	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	I _C =-1mA, I _B =0	-32	-	-	V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0	-	-	-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C = 0	-	-	-0.1	μA
DC current gain	[*] h _{FE}	V_{CE} = -1V, I _C = -100mA	70	-	240	-
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	I_{c} = -100mA, I_{B} = -10mA	-	-	-0.25	V
Transition frequency	f⊤	V _{CE} =-6V, I _C =-20mA	-	200	-	MHz
Collector output capacitance	C _{ob}	V_{CB} = -6V, I _E =0, f=1MHz	-	7.5	-	pF

: h_{FE} rank / O : 70~140, Y : 120~240 *

Electrical Characteristic Curves

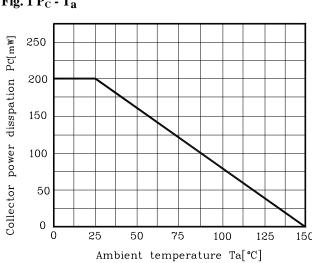
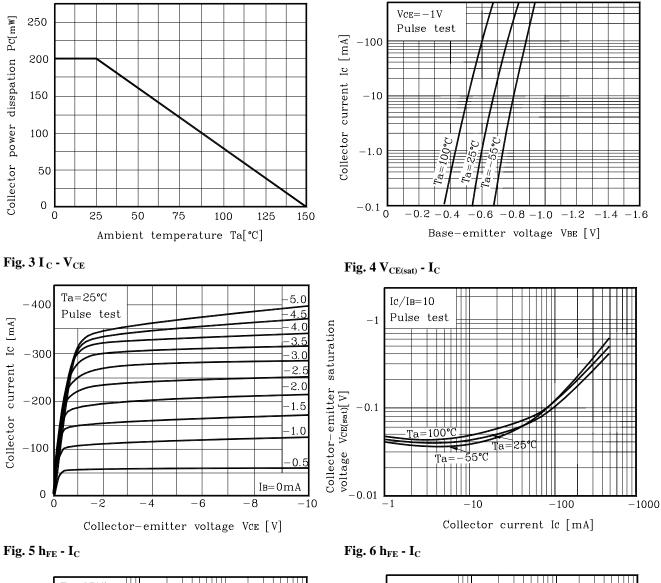
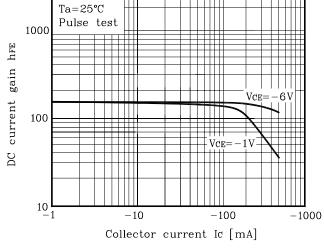
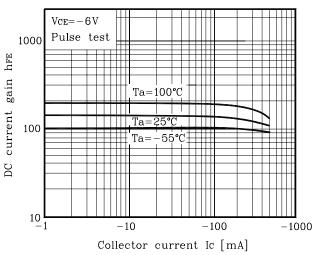


Fig. 1 P_C - T_a

Fig. 2 I_{C} - V_{BE}



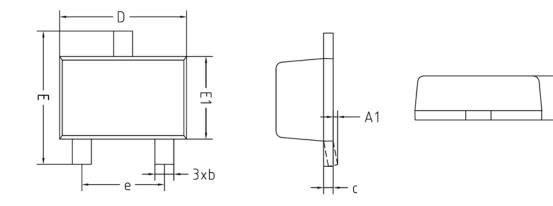




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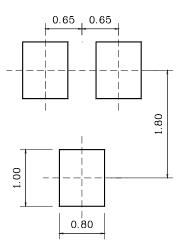
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Outline Dimension



SYMBOL	MILLIMETERS			NOTE
STRIDUL	MINIMUM	NOMINAL	MAXIMUM	NUTE
A	0.60	-	0.80	
A1	0.00	-	0.10	
Ь	0.30	-	0.40	
С	0.08	-	0.16	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.20	1.30	1.40	
е		1.30BS	С	

*Recommend PCB solder land [Unit: mm]



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